

## Water-Data Report 2008

**353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)**

Piedmont and Blue Ridge crystalline-rock aquifers

Mafic Metavolcanic Rock

Randolph County, NC

LOCATION.--Lat 35°37'07.72", long 79°45'20.60" referenced to North American Datum of 1983, Randolph County, NC, Hydrologic Unit 03030003, 6 mi southeast of Asheboro at the North Carolina Zoo. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Drilled observation well, depth 260 ft, diameter 6.25 in., cased to 70 ft, open hole from 70 ft to 260 ft.

DATUM.--Land-surface datum is 638.97 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of steel casing, 2.97 ft above land-surface datum.

PERIOD OF RECORD.--April 2007 to current year.

GAGE.--Measured periodically with electric tape by NCDENR and USGS.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 28.93 ft below land-surface datum, April 15, 2007; lowest water level recorded, 35.98 ft below land-surface datum, September 20, 2007.

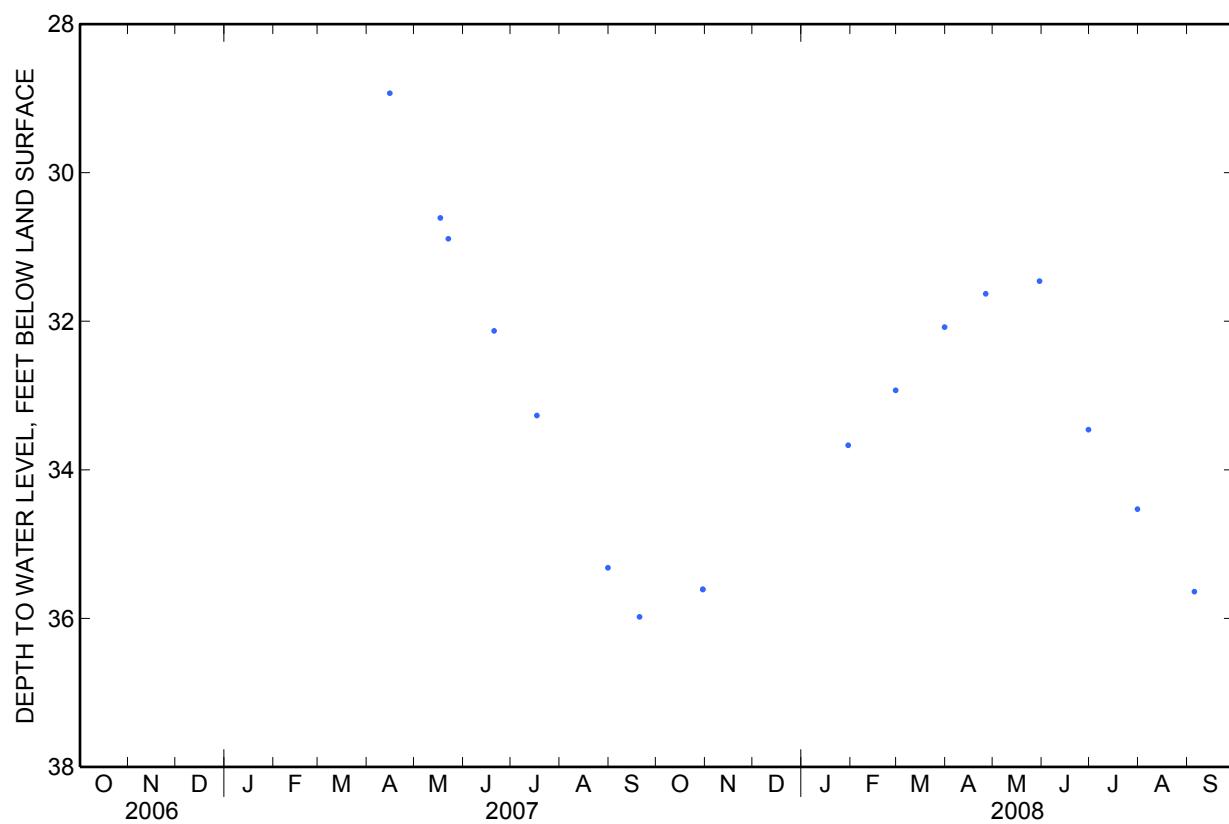
**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM**

Date	Water level	Date	Water level
Oct 30, 2007	35.61	May 30, 2008	31.46
30	35.61	Jun 30	33.46
Jan 30, 2008	33.67	Jul 31	34.53
Feb 29	32.93	Sep 5	35.64
Mar 31	32.08	30	35.03
Apr 26	31.63		

Highest: 31.46 May 30, 2008

Lowest: 35.64 Sep 05, 2008

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**353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued****WATER-QUALITY RECORDS**

PERIOD OF RECORD--May 2007, October 2007, March 2008.

REMARKS.--Well is part of Piedmont/Mountains ground-water study and the National Water Quality Assessment Program (NAWQA).

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	Time	Sample medium and type	Depth to water level, feet below	Water level, depth below MP, feet	Baro-metric pressure, mm Hg	Dissolved oxygen, mg/L	Dissolved oxygen, percent of saturation	pH, water, unfltrd field, std	Specif-ic conductance, wat unf $\mu\text{S}/\text{cm}$
			LSD (72019)	(61055)	(00025)	(00300)	(00301)	(00400)	25 degC (00095)
<b>Oct</b>									
30...	1230	Ground water, replicate	35.61	38.58	776	3.9	39	6.2	91
30...	1231	QC - Ground water, replicate	--	--	--	--	--	--	--
<b>Mar</b>									
03...	1525	Ground water, regular	32.75	35.72	753	--	--	5.8	103
03...	1530	QC - Ground water, replicate	--	--	--	--	--	--	--

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium water, mg/L (00915)	Magnes-ium, water, mg/L (00925)	Potas-sium, water, mg/L (00935)	Sodium, water, mg/L as CaCO <sub>3</sub> (00930)	ANC, infl pt titr., field, mg/L as CaCO <sub>3</sub> (00419)	Alka-linity, infl titr., field, mg/L as CaCO <sub>3</sub> (39086)	Bicar-bonate, infl titr., field, mg/L (00453)	Bicar-bonate, infl titr., field, mg/L (00450)	Bromide, water, mg/L (71870)	Chlor-ide, water, mg/L (00940)	Fluor-ide, water, mg/L (00950)
<b>Oct</b>													
30...	15.9	27	9.52	.837	1.19	6.14	--	43	53	--	E.01	2.23	<.12
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	15.9	35	12.5	.999	1.28	6.44	48	--	--	58	E.01	2.27	<.12
03...	--	31	10.7	.946	1.27	6.52	--	--	--	--	E.01	2.27	<.12

353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	Residue		Nitrate		Total nitro- gen, wat flt	Ortho- phosphate, water, filtrd,	Colipge		Colipge		Total coli- form, MI MF,	
	Silica, water, filtrd, mg/L as SiO <sub>2</sub> (00955)	Sulfate water, filtrd, mg/L (00945)	on evap.	Ammonia at 180degC water, wat flt (70300)	nitrite water filtrd, mg/L (00608)	Nitrite water filtrd, mg/L (00631)	F-spec, 2-step, by anal ysis, mg/L (00613)	CN13hst water, filtrd, mg/L (00671)	E coli, MI MF, water, col/ (90901)			
<b>Oct</b>												
30...	30.3	.67	86	<.020	<.04	<.002	<.06	.026	E.3	U	U	<1
30...	--	--	--	--	--	--	--	--	--	--	--	E1
<b>Mar</b>												
03...	31.2	.45	91	<.020	E.03	<.002	<.06	.027	--	--	--	--
03...	31.9	.54	90	<.020	<.04	<.002	<.06	.027	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	Alum- inum, water, filtrd, μg/L (01106)	Anti- mony, water, filtrd, μg/L (01095)	Arsenic water, filtrd, μg/L (01000)	Barium, water, filtrd, μg/L (01005)	Beryll- ium, water, filtrd, μg/L (01010)	Boron, water, filtrd, μg/L (01020)	Cadmium water, filtrd, μg/L (01025)	Chrom- ium, water, filtrd, μg/L (01030)	Cobalt water, filtrd, μg/L (01035)	Copper, water, unfiltrd, μg/L (01040)	Hydro- gen sulfide water, filtrd, mg/L (71875)	Iron, water, filtrd, μg/L (01046)	Lead, water, filtrd, μg/L (01049)
	(01106)	(01095)	(01000)	(01005)	(01010)	(01020)	(01025)	(01030)	(01035)	(01040)	(71875)	(01046)	(01049)
<b>Oct</b>													
30...	<1.6	E.11	.20	14	.01	E4	<.04	.15	.30	E.95	U	17	.58
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	E1.2	E.12	.27	15	.02	1.6	<.04	.18	.36	E.73	--	16	.15
03...	E1.4	E.11	.27	14	.02	1.6	<.04	.18	.34	<1.0	--	17	.14

353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 5 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	Lithium water, filtrd, µg/L (01130)	Mangan- ese, water, filtrd, µg/L (01056)	Molyb- denum, water, filtrd, µg/L (01060)	Nickel, water, filtrd, µg/L (01065)	Selen- ium, water, filtrd, µg/L (01145)	Silver, water, filtrd, µg/L (01075)	Stront- ium, water, filtrd, µg/L (01080)	Thall- ium, water, filtrd, µg/L (01057)	Vana- dium, water, filtrd, µg/L (01085)	Zinc, water, filtrd, µg/L (01090)	1-Naph- thol, water, filtrd, µg/L (49295)	2,6-Di- ethyl- aniline water, filtrd, µg/L (82660)	2Chloro -2',6'- diethyl acet- anilide water, filtrd, µg/L (61618)
Oct													
30...	1.4	106	E.1	.25	.27	<.1	34.2	<.04	.32	4,770	<.04	<.006	<.010
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	--	144	<.2	1.2	.21	<.1	--	--	--	3,900	--	--	--
03...	--	135	E.1	.26	.22	<.1	--	--	--	3,790	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 6 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	2-Ethyl -6- methyl- CIAT, water, filtrd, µg/L (04040)	2-Ethyl -6- methyl- aniline water, filtrd, µg/L (61620)	3,4-Di- chloro- aniline water, filtrd, µg/L (61625)	3,5-Di- chloro- aniline water, filtrd, µg/L (61627)	4-Chloro- 2methyl phenol water, filtrd, µg/L (61633)	Aceto- chlor, water, filtrd, µg/L (49260)	Ala- chlor, water, filtrd, µg/L (46342)	Endo- sulfan, water, filtrd, µg/L (34362)	alpha- Atra- zine, water, filtrd, µg/L (39632)	Azin- phos- methyl oxon, water, filtrd, µg/L (61635)	Azin- phos- methyl, water, filtrd, µg/L (82686)	Ben- flur- alin, water, filtrd, µg/L (82673)	Car- baryl, water, filtrd, µg/L (82680)
Oct													
30...	<.014	<.010	<.006	<.008	<.005	<.006	<.006	<.006	<.007	<.04	<.120	<.004	<.060
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 7 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	Carbo-furan, water, fltrd 0.7u GF	Chlor-pyrifos oxon, water, fltrd	Chlor-pyrifos water, fltrd	cis-Per-methrin water 0.7u GF	cis-Propi-conazole, water, fltrd	Cyana-zine, water, fltrd	Cyflu-thrin, water, fltrd	lambda-Cyhalothrin, water, fltrd	Cypermethrin water, fltrd	DCPA, water, fltrd 0.7u GF	Desulf-inyl-fipronil, water, fltrd 0.7u GF	Diazi-non, water, fltrd 0.7u GF	Dicro-tophos, water, fltrd 0.7u GF
	µg/L (82674)	µg/L (61636)	µg/L (38933)	µg/L (82687)	µg/L (79846)	µg/L (04041)	µg/L (61585)	µg/L (61595)	µg/L (61586)	µg/L (82682)	µg/L (62170)	µg/L (39572)	µg/L (38454)
<b>Oct</b>													
30...	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 8 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	Dimeth-die- drin, water, fltrd 0.7u GF	Disulf-otone, water, fltrd	Disul- foton, water, fltrd 0.7u GF	Endo-sulfan water, fltrd	EPTC, water, fltrd 0.7u GF	Ethion monoxon water, fltrd 0.7u GF	Ethion, water, fltrd 0.7u GF	Etho-prop, water, fltrd 0.7u GF	Fenami-phos sulfone, water, fltrd 0.7u GF	Fenami-phos sulf-oxide, water, fltrd 0.7u GF	Fenami-phos, water, fltrd 0.7u GF	Desulf-inyl- fipronil amide, water, fltrd 0.7u GF	
	µg/L (39381)	µg/L (82662)	µg/L (61640)	µg/L (82677)	µg/L (61590)	µg/L (82668)	µg/L (61644)	µg/L (82346)	µg/L (82672)	µg/L (61645)	µg/L (61646)	µg/L (61591)	µg/L (62169)
<b>Oct</b>													
30...	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053	<.06	<.03	<.029
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

353708079452103 Local number RA-167, NC DENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 9 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	Fipro-nil sulfide water, fltrd, µg/L (62167)	Fipro-nil sulfone water, fltrd, µg/L (62168)	Fipro-nil water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexazine, water, fltrd, µg/L (04025)	Ipro-dione, water, fltrd, µg/L (61593)	Isofen-phos, water, fltrd, µg/L (61594)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)	Methid-athion, water, fltrd, µg/L (61598)	Methyl para-oxon, water, fltrd, µg/L (61664)	Methyl parathion, water, fltrd, 0.7u GF µg/L (82667)
<b>Oct</b>													
30...	<.013	<.024	<.020	<.010	<.008	<.01	<.006	<.020	<.016	<.007	<.004	<.01	<.008
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 10 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	Metola-chlor, water, fltrd, µg/L (39415)	Metri-buzin, water, fltrd, µg/L (82630)	Moli-nate, water, 0.7u GF µg/L (82671)	Myclo-butanol water, fltrd, µg/L (61599)	Oxy-fluor-fen, water, fltrd, µg/L (61600)	Pendi-meth-alin, water, fltrd, 0.7u GF µg/L (82683)	Phorate, water, fltrd, µg/L (61666)	Phorate, water, fltrd, 0.7u GF µg/L (82664)	Phosmet, water, fltrd, µg/L (61601)	Prome-ton, water, fltrd, µg/L (04037)	Prome-tryn, water, fltrd, µg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF µg/L (82676)	Pro-panal, water, fltrd, 0.7u GF µg/L (82679)
<b>Oct</b>													
30...	<.010	<.012	<.003	<.010	<.006	<.012	<.03	<.040	<.008	<.01	<.006	<.004	<.006
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 11 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	Propar-gite, water, fltrd 0.7u GF	Sima-zine, water, fltrd 0.7u GF	Tebu-thiuron water, fltrd 0.7u GF	Teflu-thrin, water, fltrd 0.7u GF	Ter-bufos oxon sulfone	Terbu-fos, water, fltrd 0.7u GF	Ter-buthyl- azine, water, fltrd 0.7u GF	Thio-bencarb water, fltrd 0.7u GF	trans-conazole, water, fltrd 0.7u GF	Propi-phos, water, fltrd 0.7u GF	Tri-flur-alin, water, fltrd 0.7u GF	1,1,1,2-Tetra-chloro-ethane, water, unfltrd 0.7u GF	1,1,1-Tri-chloro-ethane, water, unfltrd 0.7u GF
	µg/L (82685)	µg/L (04035)	µg/L (82670)	µg/L (61606)	µg/L (61674)	µg/L (82675)	µg/L (04022)	µg/L (82681)	µg/L (79847)	µg/L (61610)	µg/L (82661)	µg/L (77562)	µg/L (34506)
<b>Oct</b>													
30...	<.04	<.006	<.02	<.003	<.04	<.02	<.01	<.010	<.02	<.035	<.006	<.04	<.02
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 12 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	1,1,2,2-Tetra-chloro-ethane, water, unfltrd 0.7u GF	CFC-113 water, unfltrd 0.7u GF	1,1,2-Tri-chloro-ethane, water, unfltrd 0.7u GF	1,1-Di-chloro-ethane, water, unfltrd 0.7u GF	1,1-Di-chloro-ethene, water, unfltrd 0.7u GF	1,1-Di-chloro-propene, water, unfltrd 0.7u GF	-Tetra-methyl-benzene water, unfltrd 0.7u GF	-Tetra-methyl-benzene water, unfltrd 0.7u GF	1,2,3,4-Tetra-chloro-benzene water, unfltrd 0.7u GF	1,2,3,5-Tetra-chloro-benzene water, unfltrd 0.7u GF	1,2,3-Tri-chloro-propane water, unfltrd 0.7u GF	1,2,3-Tri-chloro-benzene water, unfltrd 0.7u GF	1,2,4-Tri-chloro-benzene water, unfltrd 0.7u GF
	µg/L (34516)	µg/L (77652)	µg/L (34511)	µg/L (34496)	µg/L (34501)	µg/L (77168)	µg/L (49999)	µg/L (50000)	µg/L (77613)	µg/L (77443)	µg/L (77221)	µg/L (34551)	µg/L (77222)
<b>Oct</b>													
30...	<.10	<.04	<.06	<.04	<.02	<.04	<.1	<.1	<.1	<.12	<.1	<.1	<.04
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 13 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	Dibromo-chloro-propane water, unfltrd	1,2-Dibromoethane, water, unfltrd	1,2-Dichlorobenzene water, unfltrd	1,2-Dichloroethane, water, unfltrd	1,2-Dichloropropane water, unfltrd	Tri-methylbenzene	1,3-Dichlorobenzene water, unfltrd	1,3-Dichloropropane water, unfltrd	1,4-Dichlorobenzene water, unfltrd	2,2-Dichloropropane water, unfltrd	2-Chlorotoluene	2-Ethyltoluene	3-Chloropropene water, unfltrd
	µg/L (82625)	µg/L (77651)	µg/L (34536)	µg/L (32103)	µg/L (34541)	µg/L (77226)	µg/L (34566)	µg/L (77173)	µg/L (34571)	µg/L (77170)	µg/L (77275)	µg/L (77220)	µg/L (78109)
<b>Oct</b>													
30...	<.5	<.04	<.02	<.1	<.02	<.04	<.04	<.1	<.02	<.06	<.04	<.04	<.08
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 14 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	4-Chlorotoluene water, unfltrd	4-Iso-propyltoluene water, unfltrd	Acetone	Acrylonitrile	Benzene	Bromo-benzene	Bromo-chloro-methane	Bromo-methane	Bromo-ethene, water, unfltrd	Tri-bromo-methane	Bromo-methane	Carbon di-sulfide	Chlorobenzene water, unfltrd
	µg/L (77277)	µg/L (77356)	µg/L (81552)	µg/L (34215)	µg/L (34030)	µg/L (81555)	µg/L (77297)	µg/L (32101)	µg/L (50002)	µg/L (32104)	µg/L (34413)	µg/L (77041)	µg/L (34301)
<b>Oct</b>													
30...	<.04	<.08	<4	<.4	<.02	<.02	<.06	<.04	<.1	<.08	<.4	<.06	<.02
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 15 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	Chloro-ethane, water, unfltrd	Chloro-methane, water, unfltrd	cis-1,2-Di-chloro-ethene, water, unfltrd	cis-1,3-Di-chloro-propene, water, unfltrd	Di-bromo-chloro-methane, water, unfltrd	Di-bromo-methane, water, unfltrd	Di-chloro-fluoro-methane, water, unfltrd	Di-chloro-methane, water, unfltrd	Di-ethyl-ether, water, unfltrd	Diiso-propyl-ether, water, unfltrd	Ethyl-methacrylate, water, unfltrd	Ethyl-methyl-ketone, water, unfltrd	Ethyl-benzene, water, unfltrd
	µg/L (34311)	µg/L (34418)	µg/L (77093)	µg/L (34704)	µg/L (32105)	µg/L (30217)	µg/L (34668)	µg/L (34423)	µg/L (81576)	µg/L (81577)	µg/L (73570)	µg/L (81595)	µg/L (34371)
<b>Oct</b>													
30...	<.1	<.1	<.02	<.10	<.1	<.04	<.14	<.04	<.1	<.06	<.1	<1.6	<.04
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 16 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	Hexa-chloro-butadiene, water, unfltrd	Hexa-chloro-ethane, water, unfltrd	Iodo-methane, water, unfltrd	Iso-butyl-methyl-ketone, water, unfltrd	Iso-propyl-benzene, water, unfltrd	Methyl-acrylo-nitrile, water, unfltrd	Methyl-acryl-ate, water, unfltrd	Methyl-methacrylate, water, unfltrd	Methyl-tert-pentyl-ether, water, unfltrd	Methyl-+ para-Xylene, water, unfltrd	Methyl-Naphth-alene, water, unfltrd	Methyl-n-butyl-ketone, water, unfltrd	Methyl-n-Butyl-benzene, water, unfltrd
	µg/L (39702)	µg/L (34396)	µg/L (77424)	µg/L (78133)	µg/L (77223)	µg/L (81593)	µg/L (49991)	µg/L (81597)	µg/L (50005)	µg/L (85795)	µg/L (34696)	µg/L (77103)	µg/L (77342)
<b>Oct</b>													
30...	<.1	<.1	<.40	<.4	<.04	<.2	<.6	<.2	<.06	<.08	<.2	<.6	<.1
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

353708079452103 Local number RA-167, NCDENR North Carolina Zoo Research Station MW-2D near Asheboro, NC (Bedrock)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 17 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	n-Propyl-benzene water, unfltrd	o-Xylene, water, unfltrd	sec-Butyl-benzene water, unfltrd	Styrene water, unfltrd	t-Butyl ether, water, unfltrd	Methyl t-butyl ether, water, unfltrd	tert-Butyl benzene water, unfltrd	Tetra-chloroethene, water, unfltrd	Tetra-chloromethane water, unfltrd	Tetra-hydrofuran, water, unfltrd	Toluene water, unfltrd	trans-1,2-Dichloroethene, water, unfltrd	trans-1,3-Dichloropropene water, unfltrd
	µg/L (77224)	µg/L (77135)	µg/L (77350)	µg/L (77128)	µg/L (50004)	µg/L (78032)	µg/L (77353)	µg/L (34475)	µg/L (32102)	µg/L (81607)	µg/L (34010)	µg/L (34546)	µg/L (34699)
<b>Oct</b>													
30...	<.04	<.04	<.04	<.04	<.04	<.1	<.06	<.04	<.08	<1	<.02	<.02	<.10
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 18 of 19

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated; R, radchem non-detect, below ssLc; U, analyzed for but not detected.]

Date	trans-1,4-Dichloro-2-butene, wat unf	Tri-chloroethene, water, unfltrd	Tri-chlorofluoro-methane, water, unfltrd	Vinyl chloride, water, unfltrd	Di-chlorvos, water, unfltrd	Gross alpha, 30 day recount	Gross alpha, 72 hr, wat unf	Gross beta, 30 day recount	Gross beta, 72 hr, wat unf	Gross beta, 72 hr, wat unf	Ra-226, radon method	Ra-228, water, filtrd, method	Rn-222, water, unfltrd, pCi/L
	µg/L (73547)	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)	pCi/L (38775)	pCi/L (63016)	pCi/L (63014)	pCi/L (63017)	pCi/L (63015)	pCi/L (09511)	pCi/L (81366)	pCi/L (76002)
<b>Oct</b>													
30...	<.6	<.02	<.08	E.04	<.1	<.01	R-.6	R-.5	1.2	1.1	.019	R.09	27
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Mar</b>													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

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**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 19 of 19

[QC, quality control sample. Remark codes: <, less than;  
 E, estimated; R, radchem non-detect, below ssLc;  
 U, analyzed for but not detected.]

Date	Uranium			
	Rn-222, unfiltrd water, pCi/L (82303)	natural filtrd, water, μg/L (22703)	Data base number	Medium code
<b>Oct</b>				
30...	590	.05	01	WG
30...	--	--	04	<i>WGQ</i>
<b>Mar</b>				
03...	--	.05	01	WG
03...	--	.05	04	<i>WGQ</i>